

**SYSTEM FOR TRANSMITTING HIGH QUALITY SPEECH SIGNALS
ON A VOICE OVER INTERNET PROTOCOL NETWORK**

Abstract

The VoIP quality speech process is activated when a subscriber accesses a
5 speech quality sensitive resource or in response to an activation of the feature by
the subscriber, or when it is determined that the originating subscriber terminal
device requires the transmission of high quality speech signals. A transmit buffer,
associated with the port circuit that serves the originating device, stores a
predetermined number of packets as they are transmitted from the originating
10 device. In the case of lost or damaged packets, the VoIP quality speech system
activates the transmit buffer to retransmit the missing or damaged packet to the
destination device. Intelligent buffer management is provided, where the
destination device can regulate the size of the transmit buffer as well as the size of
it's jitter buffer.